CHEM 1423 Chapters 17 Homework Answers

TEXTBOOK HOMEWORK

- 17.29 Not at equilibrium. Will move towards left
- 17.38 28.2 atm
- **17.41** 1.61x10⁻³ M
- **17.44** $[I_2] = [Cl_2] = 0.020 \text{ M}$ [ICl= 0.060 M]
- **17.46** 6.0x10⁻⁶
- **17.47** $P_{CO} = 0.713 \text{ atm}$, $P_{CO2} = 0.287 \text{ atm}$
- 17.56 (a) Move to right. No change in K(b) Move to right. No change in K
- **17.61** (a) Move to right. K will increase
 - (b) Move to right. K will increase
 - (c) Move to right. K will increase
 - (d) Move to left. K will decrease

SUPPLEMENTARY HOMEWORK

- **S1.** D
- **S2.** C
- **S3.** D
- **S4.** E
- **S5.** C

S6. [NH₃]/[H₂] will

- (a) Increase
- (b) Remain the same
- (c) Decrease
- (d) Increase
- (e) Increase. In addition, K_c will increase

- **S7.** 0.66
- **S8.** 0.16
- **S9.** 0.88 M
- **S10.** 4500
- **S11.** (a) $\Box H^{\circ} = -41.4 \text{ kJ/mol}$ (b) $K_{c} = 22.4$ (c) $T = 620 \text{ }^{\circ}\text{C}$
- **S12.** 0.0067 M
- **S13.** 39.